

090
0814

CRF Errors Corrected by the STIC Systems Branch

OIRP

Serial Number:

US/09/921144

CRF Processing Date: 10/09/01

Edited by: mmt

Verified by: (ST

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line. #2
- ☐ Edited a format error in the Current Application Data section, specifically:

- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:

- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:

- ☐ Deleted extra, invalid, headings used by an applicant, specifically:

- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically:

- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:

- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other:

ENTERED

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/921,144

DATE: 10/09/2001

TIME: 12:47:56

Input Set : N:\Crf3\08132001\I921144.raw

Output Set: N:\CRF3\10092001\I921144.raw

ENTERED

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1 <110> APPLICANT: ZHONG, Pingyu
2 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR GENERATING
3   CHIMERIC HETEROMULTIMERS
4 <130> FILE REFERENCE: 13403.0004.NPUS00
5 <140> CURRENT APPLICATION NUMBER: US/09/921,144
6 <141> CURRENT FILING DATE: 2001-08-01
7 <160> NUMBER OF SEQ ID NOS: 30
8 <170> SOFTWARE: FastSEQ for Windows Version 4.0
10 <210> SEQ ID NO: 1
11 <211> LENGTH: 146
12 <212> TYPE: DNA
13 <213> ORGANISM: Homo sapiens
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15 <221> NAME/KEY: CDS
16 <222> LOCATION: (1)...(132)
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19   Ser Arg Gly Gly Gly Gly Glu Glu Lys Ser Arg Leu Leu Glu Lys Glu
20   1           5           10           15
21   aac cgt gaa ctg gaa aag atc att gct gag aaa gag gag cgt gtc tct      96
22   Asn Arg Glu Leu Glu Lys Ile Ile Ala Glu Lys Glu Glu Arg Val Ser
23           20           25           30
24   gaa ctg cgc cat caa ctc cag tct gta gga ggt tgt taatagggcg      142
25   Glu Leu Arg His Gln Leu Gln Ser Val Gly Gly Cys
26           35           40
27   cgcc
29 <210> SEQ ID NO: 2      146
30 <211> LENGTH: 44
31 <212> TYPE: PRT
32 <213> ORGANISM: Homo sapiens
33 <400> SEQUENCE: 2
34   Ser Arg Gly Gly Gly Gly Glu Glu Lys Ser Arg Leu Leu Glu Lys Glu
35   1           5           10           15
36   Asn Arg Glu Leu Glu Lys Ile Ile Ala Glu Lys Glu Glu Arg Val Ser
37           20           25           30
38   Glu Leu Arg His Gln Leu Gln Ser Val Gly Gly Cys
39           35           40
41 <210> SEQ ID NO: 3
42 <211> LENGTH: 140
43 <212> TYPE: DNA
44 <213> ORGANISM: Homo sapiens
45 <220> FEATURE:
46 <221> NAME/KEY: CDS
47 <222> LOCATION: (1)...(140)
48 <400> SEQUENCE: 3
49   tct cga gga ggt ggt gga aca tcc cgc ctg gag ggc cta cag tca gaa      48
50   Ser Arg Gly Gly Gly Gly Thr Ser Arg Leu Glu Gly Leu Gln Ser Glu

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Input Set : N:\Crf3\08132001\I921144.raw

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51      1          5          10          15
52      aac cat cgc ctg cga atg aag atc aca gag ctg gat aaa gac ttg gaa      96
53      Asn His Arg Leu Arg Met Lys Ile Thr Glu Leu Asp Lys Asp Leu Glu
54      20          25          30
55      gag gtc acc atg cag ctg cag gac gtc gga ggt tgc gcg gcc gc      140
56      Glu Val Thr Met Gln Leu Gln Asp Val Gly Gly Cys Ala Ala
57      35          40          45
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60 <211> LENGTH: 46
61 <212> TYPE: PRT
62 <213> ORGANISM: Homo sapiens
63 <400> SEQUENCE: 4
64      Ser Arg Gly Gly Gly Gly Thr Ser Arg Leu Glu Gly Leu Gln Ser Glu
65      1          5          10          15
66      His Arg Leu Arg Met Lys Ile Thr Glu Leu Asp Lys Asp Leu Glu Glu
67      20          25          30
68      Val Thr Met Gln Leu Gln Asp Val Gly Gly Cys Ala Ala Ala
69      35          40          45
71 <210> SEQ ID NO: 5
72 <211> LENGTH: 203
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial Sequence ✓
75 <220> FEATURE:
76 <223> OTHER INFORMATION: Bluescript vector ✓
77 <223> OTHER INFORMATION: Bluescript vector
78 <400> SEQUENCE: 5
79      aat tgt gag cgg ata aca att tac cgg ttc ttt taa ctt tag taa gga      48
80      gga att aaa aaa tga aaa agt ctt tag tcc tca aag cct ccg tag ccg      96
81      ttg cta ccc tcg ttc cga tgc taa gct tcg ctt cta gag cgg ccg ctt      144
82      atc cat acg acg tac cag act acg cag gag gtc atc acc atc atc acc      192
83      att aga gat ct      203
85 <210> SEQ ID NO: 6
86 <211> LENGTH: 45
87 <212> TYPE: PRT
88 <213> ORGANISM: Artificial Sequence ✓
89 <220> FEATURE:
90 <223> OTHER INFORMATION: BlueScript ✓
91 <400> SEQUENCE: 6
92      Met Lys Lys Ser Leu Val Leu Lys Ala Ser Val Ala Val Ala Thr Leu
93      1          5          10          15
94      Val Pro Met Leu Ser Phe Ala Ser Arg Ala Ala Ala Tyr Pro Tyr Asp
95      20          25          30
96      Val Pro Asp Tyr Ala Gly Gly His His His His His His
97      35          40          45
99 <210> SEQ ID NO: 7
100 <211> LENGTH: 212
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/921,144

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Input Set : N:\Crif3\08132001\I921144.raw

Output Set: N:\CRF3\10092001\I921144.raw

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104 <223> OTHER INFORMATION: Bluescript vector
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107     aat tgt gag cgg ata aca att tac cgg ttc ttt taa ctt tag taa gga      48
108     gga att aaa aaa tga aat acc tat tgc cta cgg cag ccg ctg gat tgt      96
109     tat tac tcg cgg ccc agc cgg cca tgg cgg ccc tgc agg cct cta gag     144
110     cgg ccg ctt atc cat acg acg tac cag act acg cag gag gtc atc acc     192
111     atc atc acc att aga gat ct                                         212
113 <210> SEQ ID NO: 8
114 <211> LENGTH: 48
115 <212> TYPE: PRT
116 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: BlueScript
119 <400> SEQUENCE: 8
120     Met Lys Tyr Leu Leu Pro Thr Ala Ala Ala Gly Leu Leu Leu Leu Ala
121         1             5             10             15
122     Ala Gln Pro Ala Met Ala Ala Leu Gln Ala Ser Arg Ala Ala Ala Tyr
123         20             25             30
124     Pro Tyr Asp Val Pro Asp Tyr Ala Gly Gly His His His His His His
125         35             40             45
127 <210> SEQ ID NO: 9
128 <211> LENGTH: 272
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Bluescript vector
133 <400> SEQUENCE: 9
134     aattgtgagc ggataacaat ttaccggttc ttttaacttt agtaaggagg aattaaaaaa      60
135     tgaaaaagtc tttagtcttc aaagcctccg tagccgttgc taccctcgtt ccgatgctaa     120
136     gcttcgcttc tagagcggcc gcttatccat acgacgtacc agactacgca ggaggtcac      180
137     accatcatca ccattagaga tctggaggcg gtactgttga aagttgttta gcaaaagcta     240
138     acatactgcg taataaggag tcttaagtcg ac                                         272
140 <210> SEQ ID NO: 10
141 <211> LENGTH: 67
142 <212> TYPE: PRT
143 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: BlueScript vector
146 <400> SEQUENCE: 10
147     Met Lys Lys Ser Leu Val Leu Lys Ala Ser Val Ala Val Ala Thr Leu
148         1             5             10             15
149     Val Pro Met Leu Ser Phe Ala Ser Arg Ala Ala Ala Tyr Pro Tyr Asp
150         20             25             30
151     Val Pro Asp Tyr Ala Gly Gly His His His His His His His Arg Ser Gly
152         35             40             45
153     Gly Gly Thr Val Glu Ser Cys Leu Ala Lys Ala Asn Ile Leu Arg Asn
154         50             55             60
155     Lys Glu Ser

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Input Set : N:\Crif3\08132001\I921144.raw

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156      65
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159 <211> LENGTH: 281
160 <212> TYPE: DNA
161 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Bluescript vector
164 <400> SEQUENCE: 11
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166      gga att aaa aaa tga aat acc tat tgc cta cgg cag ccg ctg gat tgt      96
167      tat tac tcg cgg ccc agc cgg cca tgg cgg ccc tgc agg cct cta gag      144
168      cgg ccg ctt atc cat acg acg tac cag act acg cag gag gtc atc acc      192
169      atc atc acc att aga gat ctg gag gcg gta ctg ttg aaa gtt gtt tag      240
170      caa a ag cta aca tac tgc gta ata agg agt ctt aag tcg ac      281
172 <210> SEQ ID NO: 12
173 <211> LENGTH: 70
174 <212> TYPE: PRT
175 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: BlueScript vector
178 <400> SEQUENCE: 12
179      Met Lys Tyr Leu Leu Pro Thr Ala Ala Ala Gly Leu Leu Leu Leu Ala
180      1          5          10          15
181      Ala Gln Pro Ala Met Ala Ala Leu Gln Ala Ser Arg Ala Ala Tyr
182      20          25          30
183      Pro Tyr Asp Val Pro Asp Tyr Ala Gly Gly His His His His His
184      35          40          45
185      Arg Ser Gly Gly Gly Thr Val Glu Ser Cys Leu Ala Lys Ala Asn Ile
186      50          55          60
187      Leu Arg Asn Lys Glu Ser
188      65          70
190 <210> SEQ ID NO: 13
191 <211> LENGTH: 501
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <221> NAME/KEY: CDS
196 <222> LOCATION: (1)...(501)
197 <223> OTHER INFORMATION: Bluescript vector
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199 <400> SEQUENCE: 13
200      atg aaa aag tct tta gtc ctc aaa gcc tcc gta gcc gtt gct acc ctc      48
201      Met Lys Lys Ser Leu Val Leu Lys Ala Ser Val Ala Val Ala Thr Leu
202      1          5          10          15
203      gtt ccg atg cta agc ttc gct tct aga ggt gga gga ggt gag gag aag      96
204      Val Pro Met Leu Ser Phe Ala Ser Arg Gly Gly Gly Gly Glu Glu Lys
205      20          25          30
206      tcc cgg ctg ttg gag aag gag aac cgt gaa ctg gaa aag atc att gct      144
207      Ser Arg Leu Leu Glu Lys Glu Asn Arg Glu Leu Glu Lys Ile Ile Ala

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208          35          40          45
209 gag aaa gag gag cgt gtc tct gaa ctg cgc cat caa ctc cag tct gta 192
210 Glu Lys Glu Glu Arg Val Ser Glu Leu Arg His Gln Leu Gln Ser Val
211          50          55          60
212 gga ggt tgt taa tag ggc gcg cca caa ttt cac agt aag gag gtt taa 240
213 Gly Gly Cys * * Gly Ala Pro Gln Phe His Ser Lys Glu Val *
214          65          70          75
215 ctt atg aaa aaa tta tta ttc gca att cct tta gtt gtt cct ttc tat 288
216 Leu Met Lys Lys Leu Leu Phe Ala Ile Pro Leu Val Val Pro Phe Tyr
217          80          85          90
218 tct cac tcc gct acg cgt tct cga gga ggt ggt gga aca tcc cgc ctg 336
219 Ser His Ser Ala Thr Arg Ser Arg Gly Gly Gly Thr Ser Arg Leu
220          95          100          105
221 gag ggc cta cag tca gaa aac cat cgc ctg cga atg aag atc aca gag 384
222 Glu Gly Leu Gln Ser Glu Asn His Arg Leu Arg Met Lys Ile Thr Glu
223          110          115          120          125
224 ctg gat aaa gac ttg gaa gag gtc acc atg cag ctg cag gac gtc gga 432
225 Leu Asp Lys Asp Leu Glu Glu Val Thr Met Gln Leu Gln Asp Val Gly
226          130          135          140
227 ggt tgc gcg gcc gct tat cca tac gac gta cca gac tac gca gga ggt 480
228 Gly Cys Ala Ala Ala Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Gly Gly
229          145          150          155
230 cat cac cat cat cac cat tag 501
231 His His His His His His *
232          160
234 <210> SEQ ID NO: 14
235 <211> LENGTH: 163
236 <212> TYPE: PRT
237 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION: BlueScript vector
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242 1 5 10 15
243 Val Pro Met Leu Ser Phe Ala Ser Arg Gly Gly Gly Gly Glu Glu Lys
244 20 25 30
245 Ser Arg Leu Leu Glu Lys Glu Asn Arg Glu Leu Glu Lys Ile Ile Ala
246 35 40 45
247 Glu Lys Glu Glu Arg Val Ser Glu Leu Arg His Gln Leu Gln Ser Val
248 50 55 60
249 Gly Gly Cys Gly Ala Pro Gln Phe His Ser Lys Glu Val Leu Met Lys
250 65 70 75 80
251 Lys Leu Leu Phe Ala Ile Pro Leu Val Val Pro Phe Tyr Ser His Ser
252 85 90 95
253 Ala Thr Arg Ser Arg Gly Gly Gly Gly Thr Ser Arg Leu Glu Gly Leu
254 100 105 110
255 Gln Ser Glu Asn His Arg Leu Arg Met Lys Ile Thr Glu Leu Asp Lys
256 115 120 125
257 Asp Leu Glu Glu Val Thr Met Gln Leu Gln Asp Val Gly Gly Cys Ala

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/921,144

DATE: 10/09/2001

TIME: 12:47:57

Input Set : N:\Crf3\08132001\I921144.raw

Output Set: N:\CRF3\10092001\I921144.raw